



Digital Earth Australia program strategy and roadmap

Our vision

To be the trusted source of reliable, timely and accurate open satellite data and products, helping Australian governments and businesses make informed decisions and develop new capabilities and opportunities to drive economic growth.

Our mission

To embed satellite imagery and data into decisions that support a sustainable Australian environment, a resilient society and a strong economy.

Strategic objectives

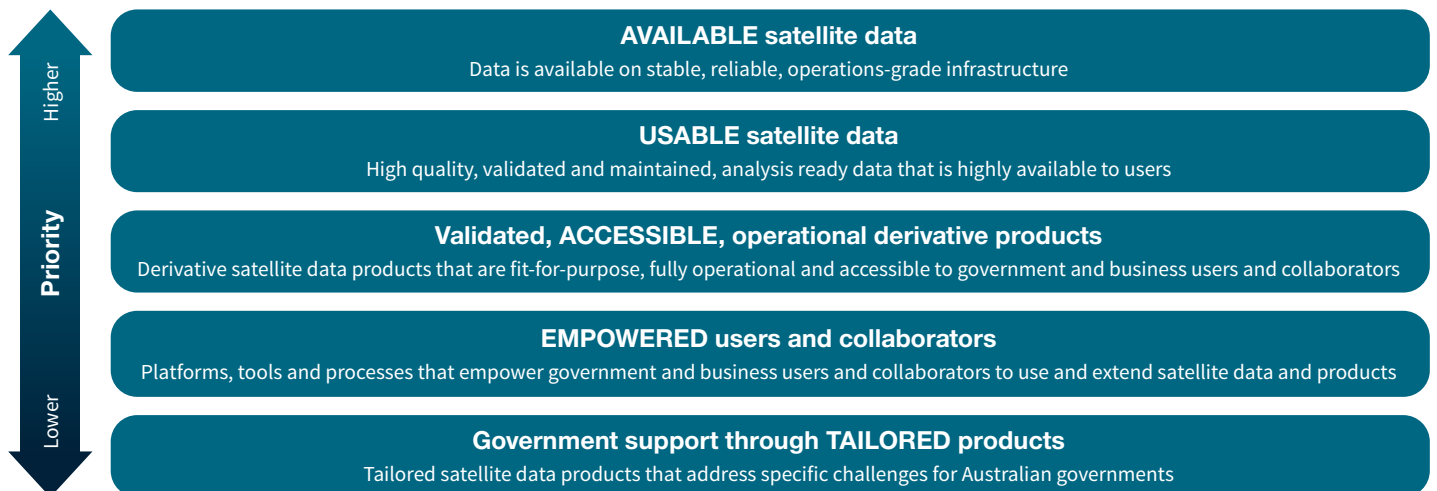
- Australian governments, informed by open satellite data and products, make better decisions on policy, investment, management and operation.
- Australian industry and businesses capitalise on open satellite data to make better decisions and create new capabilities that increase efficiency, productivity and employment opportunities across the Australian economy.

DEA deliverables

In order to achieve its strategic objectives and realise the benefits outlined above, DEA will measure progress against the following deliverables. With engaged users and a sustainable on-going delivery program being fundamental and additional deliverables that cut across the whole program.

DEA impacts and benefits

- Better decisions on policy, investment and regulation
- Effective management of environmental assets and better use of land and water resources
- Safer communities
- Development of new applications to address complex challenges and improve productivity
- Enablement of industry to innovate, create new products and develop commercial opportunities
- Commercial ventures that generate employment opportunities
- An open and transparent program that increases trust in Australian science and scientific agencies



DEA Roadmap 2022-2025

Priority	Initiatives	Year 1 2022-23	Year 2 2023-24	Year 3 2024-25	Post June 2025	
Stabilise	Strategy development and implementation	Deliver Engagement Strategy Deliver ICT Strategy				
	Program capability uplift	Embed program fundamentals	Uplift priority capabilities	Continue capability improvement		
	Collections upgrades		Sentinel 2 – upgrade to next stage collection			
	Monitoring and reporting	Implement platform performance monitoring and product usage reporting	Implement business intelligence solution			
	Operational product transition	Deliver Landsat 9 Analysis Ready Data (ARD)	Deliver Landsat 9 derivative products			
		Transition priority DEA products into business-as-usual (BaU) operation	Transition remaining DEA products into BaU operation			
	Automated processing and validation	Enhance ARD and derivative product validation	Finalise data workflow automation Define scope and target architecture	Undertake Proof of Concept (PoC)	Implement automation solution	
Serve		Client support and communications				
		Infrastructure, environment and data management				
		Data and product generation, validation and support				
		Application and tools management and support				
Expand	Stakeholder engagement and partner collaboration	Collaborate with key Earth Observation partners – United States Geological Survey, European Space Agency, Earth Observation for Government Network, etc.				
		Implement Engagement Strategy	Engage with targeted sectors and stakeholders (dependent on outcomes of Engagement Strategy)			
	Scale-up pathways	Decide scale up pathways	Develop scale up solution/s			
	Diversified data sources	Deliver Sentinel 2 ARD	Deliver Sentinel 2 derivative products	Continue Sentinel 2 derivative products delivery		
				Scope transition to alternate ARD	Undertake alternate ARD PoC	
					Deliver Sentinel 1 ARD	Deliver Sentinel 1 derivative products
				Establish free and open ground truth database		
	Diversified access platforms & tools		Implement Digital Atlas integration	Continue access platform and tool diversification		
	Building a targeted Earth Observation product suite		Upgrade Fractional Cover	Implement Digital Atlas and DEA Maps visualisation and tools		
		Deliver Australian Bureau of Statistics Land Accounts (Land Cover)		Implement Land Cover enhancements		
Industry collaboration	Earth Observations for Climate Smart Innovation					
	Earth Observations for the Northern Territory					
Addressing specific government needs	Blue Carbon Habitat Mapping					
	Australian Research Data Commons (ARDC) bushfire challenge (near real-time and historic burnt area products)					
Digital Earth Antarctica	Scope and define Digital Earth (DE) Antarctica		Implement DE Antarctica			

DEA priorities

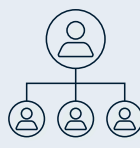
Stabilise - our foundations



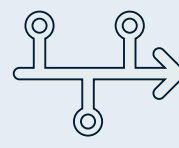
Infrastructure, foundational satellite data and products, and the workflows and processes to operate and deliver them are robust, reliable and fully operational.



Platforms and tools that simplify access to satellite data and products for application and extension are intuitive and easy to use.



The organisational capabilities to manage and operate the ongoing Program are established and matured.

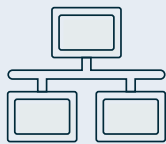


A clearly articulated engagement and communication strategy and an implementation plan are developed, identifying priority stakeholders, collaborators and users for engagement aligned with DEA's priorities.



The benefits delivered to DEA's target beneficiaries are articulated through qualitative and quantitative measures.

Serve - our stakeholders, users and collaborators



Operational satellite data, platforms and products currently in production are delivered through modern, operations-grade infrastructure and highly available to stakeholders, collaborators and users, including emergency managers.



Business-as-usual processes are in place to support the seamless operation of services, and service levels are maintained or exceeded.



Ongoing engagement with users to confirm DEA is meeting challenges users face in utilising our satellite data effectively.

Expand - the use of satellite data and products to Australian government, industry and businesses



Engaging in a coordinated manner and collaborating with targeted government, industry and business beneficiaries to understand their needs and use cases.



Empowering collaborators and users with intuitive and accessible platforms and tools, and foundational data and products to interrogate.



Enhancing existing or developing new data and products.



Supporting Earth Observation education and raising awareness through scientific expertise.

Contact us

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